

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A compressor, comprising:

a first member having a first sliding surface; and

a second member having a second sliding surface,

wherein one of the sliding surfaces slides on the other sliding surface, and

wherein a sliding film ~~made of a binder resin~~ is formed on at least one of the first sliding surface and the second sliding surface, ~~the binder resin containing at least solid lubricant and inorganic particles~~ the sliding film being made of a binder resin which is polyimide or polyamide-imide, polytetrafluoroethylene acting as a solid lubricant, titanium oxide powder, and a silane coupling agent, and

wherein, in the sliding film, the content of the polytetrafluoroethylene relative to the binder resin is in the range between 15% by mass and 100% by mass, inclusive, the content of the titanium oxide powder relative to the binder resin is in the range between 5% by mass and 35% by mass, inclusive, and the content of the silane coupling agent relative to the binder resin is in the range between 2% by mass and 8% by mass, inclusive.

Claim 2 (currently amended): The compressor according to claim 1, wherein, in the sliding film, contains a coupling agent the content of the polytetrafluoroethylene relative to the binder resin is in the range between 20.0% by mass and 76.0% by mass, inclusive, the content of the titanium oxide powder relative to the binder resin is in the range between 7.7% by

mass and 30.8% by mass, inclusive, and the content of the silane coupling agent relative to the binder resin is in the range between 2% by mass and 7.7% by mass, inclusive.

Claim 3 (currently amended): The compressor according to ~~claim 1~~ claim 2, wherein, in the sliding film, the binder resin is polyamide-imide the content of the titanium oxide powder relative to the binder resin is in the range between 15.4% by mass and 30.8% by mass, inclusive.

Claim 4 (currently amended): The compressor according to ~~claim 1~~ claim 3, wherein, in the sliding film, the inorganic particles are of titanium oxide powder the content of the polytetrafluoroethylene relative to the binder resin is in the range between 30.1% by mass and 76.0% by mass, inclusive.

Claim 5 (original): The compressor according to claim 4, wherein the average primary particle diameter of the titanium oxide powder is 1 μm or less.

Claim 6 (currently amended): The compressor according to ~~claim 4~~ claim 1, wherein, in the sliding film, the content of the ~~titanium oxide powder~~ polytetrafluoroethylene relative to the binder resin is in the range between 5% 30.0% by mass and 35% 80.0% by mass, inclusive.

Claim 7 (currently amended): The compressor according to ~~claim 4~~ claim 6, wherein, in the sliding film, the content of the titanium oxide powder relative to the binder resin is in the range between 10% by mass and 20% by mass, inclusive.

Claim 8 (original): The compressor according to claim 1, further comprising:

a housing in which a suction chamber, a discharge chamber, and a cylinder bore are defined;

a drive shaft, which is rotatably supported by the housing;

a piston accommodated in the cylinder bore, wherein the piston reciprocates in the cylinder bore and defines a compression chamber in the cylinder bore; and

a swash plate, wherein the swash plate is engaged with the piston via shoes such that rotation of the drive shaft is converted into reciprocation of the piston,

wherein the first member includes the shoes, and wherein the second member includes at least one of the piston and the swash plate.

Claim 9 (original): The compressor according to claim 1, further comprising:

a housing in which a suction chamber, a discharge chamber, and a cylinder bore are defined;

a drive shaft, which is rotatably supported by the housing;

a piston accommodated in the cylinder bore, wherein the piston reciprocates in the cylinder bore and defines a compression chamber in the cylinder bore; and

a swash plate, wherein the swash plate is engaged with the piston via shoes such that rotation of the drive shaft is converted into reciprocation of the piston,

wherein the first member includes the housing, and wherein the second member includes at least one of the drive shaft and the piston.

Claim 10 (original): The compressor according to claim 1, further comprising:

a housing in which a suction chamber, a discharge chamber, and a cylinder bore are defined;

a drive shaft, which is rotatably supported by the housing;

a piston accommodated in the cylinder bore, wherein the piston reciprocates in the cylinder bore and defines a compression chamber in the cylinder bore; and

a swash plate, wherein the swash plate is engaged with the piston via shoes such that rotation of the drive shaft is converted into reciprocation of the piston,

wherein the first member includes the piston, and wherein the second member includes the swash plate.

Claim 11 (original): The compressor according to claim 1, further comprising:

a housing in which a suction chamber, a discharge chamber, and a cylinder bore are defined;

a drive shaft, which is rotatably supported by the housing;

a swash plate that rotates integrally with the drive shaft;

a piston accommodated in the cylinder bore, wherein the piston defines a compression chamber in the cylinder bore, wherein the piston is engaged with the drive shaft via shoes, and wherein the piston reciprocates in the cylinder bore in accordance with an inclination angle of the swash plate; and

a rotary valve rotatably supported by the housing, wherein the rotary valve rotates integrally with the drive shaft, and wherein the compression chamber is connected with the suction chamber through the rotary valve,

wherein the first member includes the housing, and wherein the second member includes the rotary valve.

Claim 12-19 (canceled):